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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/664,933	09/22/2003	Atsuko Tanaka	020285A	5096
23850	7590 10/14/2004		EXAM	INER
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			THOMPSON, GREGORY D	
1725 K STRI SUITE 1000	•		ART UNIT	PAPER NUMBER
	ON, DC 20006		2835	

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/664,933	TANAKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Gregory D Thompson	2835				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da rill apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims		-				
4)⊠ Claim(s) <u>18-36</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>25-27 and 30-32</u> is/are allowed.	☑ Claim(s) <u>25-27 and 30-32</u> is/are allowed.					
<u> </u>	Claim(s) <u>18-24,28,29 and 33-36</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the o	= 1 1	• •				
Replacement drawing sheet(s) including the correcti		• • • • • • • • • • • • • • • • • • • •				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a	n)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents						
3. ☐ Copies of the certified copies of the prior		ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list of	or the certified copies not receive	ed.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	√(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 9/22/03.	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)				

Application/Control Number: 10/664,933

Art Unit: 2835

1.A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

2. Claim 18 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 10, 13 of prior U.S. Patent No. 6,665,181. This is a double patenting rejection.

The structural limitations claimed in claim 18 are fully met by claims 10, 13 of the patent. For example, the PCB, fan coupled....intersecting the PCB, house wall standing....PCB, inlet in the ceiling wall, electronic component mounted on the PCB, pattern....component are structural limitations found in claims 10, 13. the language of a printed circuit board in claim 18, line 1 would read on the language of an electronic apparatus in line 1 of claims 10 and 13.

3. Claim 19 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 10-12 of prior U.S. Patent No. 6,665,181. This is a double patenting rejection.

The structural limitations recited in claim 19 are fully met by claims 10-12 of the patent.

4. Claims 20-23 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 5-8 of prior U.S. Patent No. 6665181. This is a double patenting rejection.

Application/Control Number: 10/664,933

Art Unit: 2835

The structural limitations claimed in claims 20-23 are fully met by claims 5-8 of the patent. The language of electronic apparatus in line 1 of claims 20-23 would read on the language of a printed circuit board unit in line 1 of claims 5-8.

5. Claim 24 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim14 of prior U.S. Patent No. 6,665,181. This is a double patenting rejection.

The structural limitations claimed in 24 is fully met by claim 14 of the patent. The language of a printed circuit board unit in line 1 of claim 14 would read on the language of an electronic apparatus of claim 24.

6. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

7. Claims 28-29, 33-34 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 2 of U.S. Patent No. 6,665,181. Although the conflicting claims are not identical, they are not patentably distinct from each other because the structural limitations claimed in claim 28 are fully met in claim 2 except for a ground wire to ground the electronic component. However, considered obvious to one skilled in the art time of the invention to use the wiring pattern as a known common ground in the board art to provide a common ground between the component of an electrical system as known in the electrical industry.

Also, considered obvious to one skilled at the time of the invention that the component be a known central processing unit to process information as known in the electronic industry.

The language of electronic apparatus in line 1 of claim 33 reads on the language a printed circuit board unit in line 1 of claim 2.

8. Claims 35-36 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 10, 13 of U.S. Patent No. 6,665,181. Although the conflicting claims are not identical, they are not patentably distinct from each other because the structural limitations in claim 35 would be fully met by claims 10 and 13 except for an enclosure. However, it is considered obvious to one skilled in the time of the invention to dispose the electronic apparatus structure of claims 10 and 13 within an enclosure for protection from the environment.

As for claim 36, it is considered obvious to one skilled at the time of the invention that the inner surface of the enclosure could be flat to allow ease in mounting the board in the enclosure.

9. Claims 25-27 and 30-32 are allowed.

The cited art does not teach nor suggest the combination of the claimed structure in claims 25-27 and 30-32 specially an electronic component mounted on the board outside the housing wall.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory Thompson whose telephone number is

Art Unit: 2835

(571)272-2045. The examiner can normally be reached on Monday-Thursday from 6am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild, can be reached on (571)272-2800 ext. 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thompson/ds

09/16/04